

# ALPHA *coustic* - TRAP

**Bass Traps Absorbers  
BOX & SOLO TYPES**

**SOUND ABSORPTION CO-EFFICIENT**



**Sound Absorption Co-efficient Curves**  
according to ISO 354.2008 measured in  
the Acoustics Laboratory of the  
National Technical University of Athens

*Design and Production according to International Standard ISO 9001.2008.*

*Vers. 5-14*

#	Order Code	Description	Sound Absorption Co-efficient $\alpha_n$ Graph (ISO 354)	Sound Absorption Co-efficient $\alpha_n$ Frequency Spectrum (Hz)						
				F (Hz)						
1	<b>B120B25</b>	TRAP 120x60x30cm Box Type with membrane		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.13	0.31	0.83	0.76	0.63	0.43
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.30	0.31	0.31	0.24	0.23	0.18
				F (Hz)	1000	1600	2000	3150	4000	5000
$\alpha_n$	0.16	0.16	0.22	0.13	0.15	0.12				
2	<b>B120B25W30</b>	TRAP 120x60x25cm Box Type with two types of membrane		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.19	0.35	0.87	0.68	0.86	0.58
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.52	0.44	0.34	0.32	0.27	0.23
				F (Hz)	1000	1600	2000	3150	4000	5000
$\alpha_n$	0.23	0.16	0.24	0.17	0.17	0.22				
3	<b>B120M8</b>	TRAP 120x60x25cm Box Type with membrane		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.21	0.25	0.75	0.44	0.57	0.38
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.29	0.30	0.27	0.24	0.20	0.16
				F (Hz)	1000	1600	2000	3150	4000	5000
$\alpha_n$	0.16	0.14	0.19	0.14	0.15	0.20				
4	<b>B120M12</b>	TRAP 120x60x25cm Box Type with membrane		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.14	0.44	1.14	0.82	0.76	0.48
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.36	0.37	0.31	0.32	0.28	0.21
				F (Hz)	1000	1600	2000	3150	4000	5000
$\alpha_n$	0.22	0.21	0.30	0.15	0.22	0.16				

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				F (Hz)						
5	<b>B120W190</b>	TRAP 120x60x25cm Box Type with membrane		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.17	0.36	1.05	0.52	0.66	0.54
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.37	0.38	0.42	0.47	0.36	0.25
				F (Hz)	1000	1600	2000	3150	4000	5000
				$\alpha_n$	0.43	0.22	0.23	0.20	0.17	0.14
6	<b>B120W80</b>	TRAP 120x60x25cm Box Type with membrane		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.19	0.30	0.56	0.24	0.33	0.29
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.29	0.28	0.22	0.19	0.24	0.15
				F (Hz)	1000	1600	2000	3150	4000	5000
				$\alpha_n$	0.15	0.13	0.19	0.12	0.13	0.14
7	<b>B120W30</b>	TRAP 120x60x25cm Box Type with membrane		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.14	0.48	0.71	0.63	0.65	0.43
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.38	0.32	0.27	0.27	0.21	0.20
				F (Hz)	1000	1600	2000	3150	4000	5000
				$\alpha_n$	0.20	0.16	0.18	0.14	0.18	0.17
8	<b>B120F+R</b>	TRAP 120x60x25cm Box Type without membrane, with special textile & fiber sound absorption slab		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.14	0.16	0.53	0.73	0.92	1.10
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.93	0.95	0.89	0.91	0.89	0.85
				F (Hz)	1000	1600	2000	3150	4000	5000
				$\alpha_n$	0.77	0.78	0.77	0.52	0.59	0.65

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				F (Hz)						
9	<b>B120B+R</b>	TRAP 120x60x25cm Box Type with membrane, with additional fiber sound absorption slab		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.26	0.67	0.72	0.47	0.61	0.48
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.55	0.75	0.92	0.88	0.95	0.90
				F (Hz)	1000	1600	2000	3150	4000	5000
$\alpha_n$	0.86	0.76	0.78	0.71	0.72	0.78				
10	<b>B120M8+R</b>	TRAP 120x60x25cm Box Type with membrane, with additional fiber sound absorption slab		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.27	0.50	0.63	0.42	0.67	0.49
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.57	0.72	0.86	0.99	0.97	0.87
				F (Hz)	1000	1600	2000	3150	4000	5000
$\alpha_n$	0.85	0.75	0.81	0.74	0.78	0.76				

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				F (Hz)	63	80	100	125	160	200
1	<b>S120B+R</b>	TRAP-SOLO 120x60x5cm Frame Type with membrane and fiber sound absorption slab behind		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.11	0.21	0.38	0.60	0.55	0.47
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.42	0.46	0.52	0.41	0.29	0.26
				F (Hz)	1000	1600	2000	3150	4000	5000
$\alpha_n$	0.28	0.16	0.23	0.20	0.14	0.12				
2	<b>S120M20+R</b>	TRAP-SOLO 120x60x5cm Frame Type with membrane with additional outer fiber sound absorption slab		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.05	0.17	0.19	0.52	0.44	0.40
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.51	0.53	0.76	0.80	0.88	0.81
				F (Hz)	1000	1600	2000	3150	4000	5000
$\alpha_n$	0.80	0.68	0.72	0.69	0.78	0.67				
3	<b>S120F+R</b>	TRAP-SOLO 120x60x5cm Frame Type with special textile without membrane and with additional fiber sound absorption slab		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.12	0.16	0.29	0.81	0.91	0.92
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.90	0.92	0.84	0.82	0.90	0.84
				F (Hz)	1000	1600	2000	3150	4000	5000
$\alpha_n$	0.90	0.84	0.77	0.68	0.89	0.71				
4	<b>S120FB+R</b>	TRAP-SOLO 120x60x5cm Frame Type with special textile with membrane and fiber sound absorption slab in between		F (Hz)	63	80	100	125	160	200
				$\alpha_n$	0.17	0.18	0.59	0.79	0.66	0.63
				F (Hz)	250	315	400	500	630	800
				$\alpha_n$	0.54	0.51	0.59	0.42	0.41	0.37
				F (Hz)	1000	1600	2000	3150	4000	5000
$\alpha_n$	0.35	0.41	0.37	0.28	0.17	0.22				